
ORIGINAL

SAUGET AREA 2 SUPERFUND SITE
PUBLIC MEETING

SAUGET VILLAGE HALL
2897 FALLING SPRINGS ROAD
SAUGET, ILLINOIS

MONDAY, JUNE 24, 2002
7:00 P.M.

Recorded by:
Sherry Gantner, CSR
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One Metropolitan Square • Suite 2950 • St. Louis, MO 63102

www.pohlmanreporting.com

Tel: 314-421-0099 • Toll free: 877-421-0099 • Fax: 314-421-1115



1 MR. JOYCE: Hi, I'm Mike Joyce,
2 community involvement coordinator for the U.S.
3 EPA, Region 5. I'm filling in for another
4 community involvement coordinator, Stuart Hill,
5 who is called away.

6 As you know, we are going to have a
7 little presentation about the proposed plan
8 tonight, and after that there will be some time
9 for verbal comments. We'll give you some
10 instructions later. We'll need your name and
11 address. If you can please state your name
12 clearly and spell your name. Also you can
13 provide written comments tonight or by mail in
14 these fact sheets. There are plenty here on the
15 table. There is an insert with comments that can
16 be folded and mailed back to us in Chicago.

17 So without further adieu, our remedial
18 project manager, Mike Ribordy, is going to give a
19 Power Point presentation about the remediation or
20 the, I guess, interim remediation.

21 MR. RIBORDY: Hi, everyone. Thank you
22 for coming out tonight. The primary purpose of
23 this meeting is to discuss the Sauget Area 2
24 groundwater strategy.

25 Earlier last week we mailed out a fax

1 sheet, which is our proposed plan. If you are on
2 our mailing list, you should have received one in
3 the mail. Essentially, the proposed plan
4 identifies U.S. EPA's preferred alternative to
5 address discharge of contaminated groundwater
6 into the Mississippi River.

7 Let me just quickly go over -- This is
8 Sauget Area 2. It's west of Sauget Area 1, which
9 is up in this area. Site R is right here. Site
10 O, Site P, Site S, and Site Q is this large area,
11 makeup Sauget Area 2. There is a fairly large
12 groundwater route film that's approximately in
13 the vicinity of Site R, which is what we are at
14 this time talking about addressing. Once again,
15 O, P, Q, R, and S, which are primary disposal
16 areas, makeup Area 2.

17 It's approximately 312 acres surrounded
18 by approximately Route 3, Cargill, and the
19 MacArthur bridge railroad tracks. Most of Site
20 2, and I think all of Site R, is in the
21 boundaries of Sauget. Parts are in East St.
22 Louis, which is primarily P, and Cahokia, which
23 is just the very southern extent of Area Q.

24 This is just briefly what each disposal
25 areas are. Site O is formally four lagoons.

1 They've been sludged and stabilized within them,
2 and it's been covered at this time.

3 P is an old landfill that's accepted
4 municipal and industrial waste.

5 Site Q is another landfill with several
6 disposal areas. There's been a couple U.S. EPA
7 removal actions within this area. One in 1995,
8 which removed drums exposed at the riverbank.
9 And then in 1999 and 2000, there was another
10 drum, soil removal at the southern end of Area Q.

11 Site R, which is the primary area that
12 we are talking about today, was an industrial
13 landfill that accepted waste from Monsanto
14 between 1957 and 1977, contains hazardous and
15 non-hazardous, both liquid and solid chemical
16 waste. Cover was put on in 1979. Riprap was
17 installed along the bank. There's --

18 (Short break was taken.)

19 Site R, clay cover was put in place in
20 1979. In 1992 pursuant to order with the State
21 of Illinois, an investigation was conducted
22 involving sampling around Site R. And then just
23 recently, groundwater sampling was conducted in
24 2000, which showed the presence of contamination.
25 Not to say that there was not previous evidence

1 of contamination in that area based on early
2 investigations, but that was the most recent
3 sampling event.

4 Finally, Site S, small disposal area
5 supposedly steel bottoms from Clayton Chemical
6 Property.

7 Why the project is needed? What are
8 the real problems we are trying to address?

9 Based on the groundwater data collected in
10 January and May of 2000 maximum total VOC,
11 volatile organic carbide, compounds, I mean, and
12 semi-volatile organic compounds had
13 concentrations of approximately 74,000 micrograms
14 per liter, which is parts per billion, and
15 6,760,000 micrograms per liter of SVOCs.

16 These are relatively fairly high
17 concentrations of contaminated groundwater
18 discharged into the Mississippi River. This
19 discharge groundwater exceeds what's IEPA
20 criteria, and also IEPA's clean groundwater
21 cleanup criteria. The estimated mass loading,
22 which is the amount of contamination going into
23 the river, is estimated at approximately 484,000
24 pounds per year, which comes out to approximately
25 1,300 pounds per day, which is quite significant.

1 These are the various contaminates
2 found at Site R. Primarily VOCs and SVOCs. Hard
3 to see, but the bold ones come up later, are ones
4 that were primarily found in sediments, which is
5 the benzene, chlorobenzene for the VOCs.
6 Aniline, chloroaniline, 1-4 dichlorobenzene are
7 the main ones found in the sediments.

8 A review of historical data for Sites
9 O, Q, R, and S in current data indicates the
10 groundwater contamination is at least partly due
11 to the migration of leachate or liquid waste from
12 those disposal sites previously mentioned, and
13 also from the Krummrich Plant. Other potential
14 sources include possible groundwater
15 contamination for Site -- Area 1, and potentially
16 other industrial facilities in the area.

17 U.S. EPA did collect sediment data in
18 October of 2000, and this data did show that
19 sediment is contaminated with significant
20 concentrations of volatile organic compounds and
21 SVOCs starting at the northern edge of Site R,
22 and continuing along to the southern edge of Site
23 R.

24 And as previously mentioned, the five
25 most frequently detected contaminates found by

1 U.S. EPA in Mississippi River sediment is
2 chlorobenzene, 4 chloroaniline, benzene aniline,
3 and 1-4 dichlorobenzene.

4 Pursuant to the State of Illinois AOC
5 back in '94, a human health risk assessment was
6 conducted. The potential carcinogenic risks to
7 on-site workers and area residents was within
8 acceptable risk ranges. For noncarcinogenic
9 hazardous, those were also within acceptable risk
10 ranges. Part of the reason why, is people
11 typically don't come into contact with the
12 groundwater here. It's not a source of drinking
13 water in this area. Area 2 and Site R in
14 particular is primarily industrial area. Site R
15 is fenced. It's capped. It has very little
16 opportunity to come in to any kind of direct
17 contact. There doesn't appear to be an impact
18 downstream to drinking water. I guess the
19 nearest public drinking water intake is
20 approximately sixty miles down river in Chester,
21 Illinois.

22 Ecological risk, which is pretty much
23 the driver for this action. In June 2001 a
24 Baseline Ecological Risk Assessment was prepared
25 for surface water and sediment in the Mississippi

1 River in the vicinity of Site R. The October
2 through November 2000 surface water, sediment and
3 fish tissue samples were collected as part of the
4 Baseline Ecological Risk Assessment. The Risk
5 Assessment identified fish species at risk from
6 exposure to sediment, fish prey at risk from
7 exposure to surface water, and a number of
8 compounds found in sediment, surface water and
9 fish tissue that were not found in reference
10 areas. Which are, I guess, kind of call them
11 background. So in some groundwater
12 contamination, the vicinity of Site R is
13 discharging to the Mississippi River and impacted
14 river sediments.

15 So U.S. EPA became aware of this
16 earlier data. It was actually conducted despite
17 of the Krummrich facility, RICRA facility
18 investigation. It was decided between the RICRA
19 folks and Superfund people that probably the best
20 place to address this groundwater contamination
21 problem would be in Area 2.

22 So U.S. EPA requested that the Sauget
23 Area 2 performing party prepare what we call a
24 Focused Feasibility Study, which is a study
25 particularly to address the groundwater

1 contamination at Site R. Revised draft Focused
2 Feasibility Study on interim groundwater remedy
3 submitted to U.S. EPA on March 31, 2002. And as
4 the primary objective of this interim cleanup is
5 to protect the Mississippi River from adverse
6 impacts due to discharge of contaminated
7 groundwater. The Focused Feasibility Study
8 presents a detailed evaluation of remedial
9 alternatives for interim groundwater cleanup.

10 There were three alternatives studied.
11 The first alternative was a no action
12 alternative, which is required by law that this
13 is kind of like the baseline. The second
14 alternative, Alternative B, involved the physical
15 barrier. This was essentially a thirty-five foot
16 long jet grout barrier wall. It's an impermeable
17 wall along three sides of Site R. Behind this
18 wall or on the upgrade side of the wall there is
19 three extraction wells, which to extract the
20 contaminated groundwater.

21 The groundwater will be -- is proposed
22 to be routed to American Bottoms Regional
23 Treatment Facility via subsurface pipeline. The
24 pipeline will connect with the Village of Sauget
25 trunk sewer leading to the PChem plant. For the

1 discharge to go to the American Bottoms
2 Wastewater Treatment plant, then extract water --
3 Solutia, who is actually doing this action, will
4 need to get a pretreatment permit from them.
5 They are in the process of doing that, and that
6 has not been obtained at this time.

7 Several types of monitoring will be
8 done to monitor the effectiveness of this remedy.
9 One of them is groundwater quality monitoring,
10 which is just groundwater sampling downgrade --
11 outside the barrier wall, between the barrier
12 wall and Mississippi River. Groundwater level
13 monitoring, you try to maintain the same
14 groundwater level between inside the wall and
15 outside the wall so that groundwater is not
16 migrating across the wall. There isn't a grading
17 across.

18 And then there's going to be sediment
19 and surface water monitoring for the river, which
20 is going to be -- samples will be collected in
21 the plume discharge area to determine the effect
22 of contaminants migrating through or past the
23 barrier wall. There will also be an
24 institutional control component of this remedy,
25 which is essentially posting signs, possibly a

1 public education program.

2 Alternative C, is a hydraulic barrier.

3 It's very similar to Alternative B, but it does
4 not have the engineered barrier wall, and instead
5 you'll just be pumping the groundwater. You
6 probably have to maintain extraction levels
7 probably twice as high as with Alternative B.
8 And it's similar monitoring as Alternative B.

9 This is just a quick breakdown.

10 Alternative A, no action. Alternative B,
11 physical barrier. Alternative C, strictly
12 hydraulic barrier. The estimated cost for the
13 Alternative A is approximately zero dollars.
14 Alternative B, these are the capital costs, which
15 is essentially the cost it will take to construct
16 the remedy, is approximately six million eight
17 hundred thousand. And Alternative C is
18 approximately five hundred thousand.

19 Estimated operation and maintenance of
20 these remedies over about a thirty-year period is
21 approximately twenty million for Alternative B,
22 and approximately fifty million for Alternative C
23 because you are pumping probably twice as much
24 water out as Alternative B.

25 So estimated present worth cost for the

1 entire remedy over thirty years at -- using
2 today's dollars is approximately twenty-six
3 million for Alternative B, fifty million for
4 Alternative C. They both pretty much --
5 Alternative B would probably take slightly longer
6 to implement than Alternative C.

7 U.S. EPA uses nine criteria to evaluate
8 the alternatives. These are -- The first one is
9 overall protection of human health and
10 environment. Obviously, the most important one.
11 The other one is compliance with applicable or
12 relevant and appropriate requirements, which is
13 any selected remedy has to be in compliance with
14 State and Federal laws. Long-term effectiveness
15 and permanence, reduction in toxicity, mobility
16 or volume through treatment, short-term
17 effectiveness, impenetrability, cost, state
18 support, and community acceptance.

19 This is really hard to see, but this
20 table's in the fact sheet. It kind of goes
21 through each one of those criteria. It evaluates
22 how well each alternative meets these criteria.
23 Alternative A, which is no action essentially
24 drops out immediately because it doesn't provide
25 overall protection of human health and

1 environment.

2 Compliance with applicable laws and
3 regulations, Both Alternative B and Alternative C
4 should fully meet these requirements. Since this
5 interim action, and I might have failed to
6 mention that earlier, this is not the final
7 remedy -- groundwater remedy for Area 2. It's
8 just considered interim action to address one
9 known groundwater problem in this area. And
10 because of that -- we will probably have an
11 interim action regulation sheet -- you can waive
12 contaminant ARARs because essentially we wouldn't
13 be setting cleanup levels at this time, and
14 that's all that does.

15 Long-term effectiveness, table says
16 they both partially meet. As long as these
17 systems are operated correctly, they should fully
18 meet our objectives of minimizing or mitigating
19 contaminated groundwater going to the Mississippi
20 River.

21 Reduction of toxicity, mobility and
22 volume through treatment, both B and C fully meet
23 that requirement because groundwater will be
24 treated.

25 Short-term effectiveness, probably C is

1 slightly ahead of B on that account just because
2 you are not putting an engineer barrier wall,
3 which has its complications.

4 Impenetrability, they both are using
5 traditional technologies and should be able to be
6 implemented.

7 Then cost, Alternative C is
8 approximately twice as much as Alternative B.

9 Preferred alternative, U.S. EPA
10 preferred alternative for groundwater discharge
11 to the Mississippi River in the vicinity of Site
12 R is Alternative B. We think the overall remedy
13 is probably more protective than C. It's easier
14 to monitor. It's easier to ensure performance,
15 and it's far more cheaper.

16 The public comment for this started
17 June 17th, which I think was a week ago Monday.
18 It goes through July 17, 2002. There's
19 administrative record, which includes the
20 feasibility study, which goes into far more
21 detail on all these alternatives evaluated and
22 provides a lot more background information in
23 this area. It is in the Cahokia Library and also
24 at Region 5 offices in Chicago.

25 At this time, just to kind of give you

1 a better handle on what this preferred
2 alternative looks like, and a little more
3 technical information on this, I'm going to
4 invite Richard Williams from Solutia to talk
5 briefly and to go over in a little more detail
6 what the U.S. EPA's preferred alternative is.

7 MR. WILLIAMS: Good evening. My name
8 is Richard Williams. I'm the Solutia project
9 manager for the Sauget area sites, and if I can
10 just operate this here for a moment. I just have
11 a very few slides here that -- and I just want to
12 take a very few minutes to tell you a little bit
13 about some of the details of the project that we
14 are proposing.

15 As Mr. Ribordy said, back about fall of
16 last year the EPA approached a number of
17 companies here in the area and asked them to look
18 at alternatives for addressing the impacts of
19 contaminated groundwater discharging into the
20 river. Solutia volunteered to prepare that
21 study, and completed a feasibility study into
22 those alternatives.

23 Those alternatives included the
24 proposed remedy they we're discussing here
25 tonight. The remedy basically consists of a

1 barrier wall, a U-shaped barrier wall which will
2 be constructed around Site R. The wall is 3,500
3 feet long, which about 2,000 feet runs parallel
4 to the river. There will be two arms. Each one
5 about 750 feet long. That brings it almost back
6 to the levee, which runs right along here. This
7 aerial photograph was taken about two or three
8 years ago, so it's fairly recent.

9 In addition to that, we will be
10 installing at least three groundwater extraction
11 wells. And the need for those wells, I'll get
12 into in a little bit.

13 The wall will be constructed so that it
14 sits atop bedrock, which this site is about 140
15 feet deep. The wall is -- will be made of cement
16 and bentonite, which will be mixed together with
17 the insitu soils, the soils that are in the
18 ground now. And the processes by which that will
19 be done, is a process that's called jet grouting.

20 I do have this slight schematic which
21 illustrates the jet grouting process. First
22 thing that we do, we are going to drill a pilot
23 hole, like a standard -- your trenching boring.
24 Will be, I don't know, about six to eight inches
25 in diameter. That will go down to the top of the

1 bedrock, which I said is about 140 feet deep. We
2 will then pump a grout mixture of cement and
3 bentonite through the drill stem at fairly high
4 pressures. About three, perhaps four thousand
5 pounds per square inch. That grout will exit
6 through a small hole at the end of the drill stem
7 there, and you can -- I don't know if you can see
8 it, but in this photograph there is a port here
9 that the grout will exit through that.

10 The rod will be rotated, and as it
11 spins the jet will basically chop soil up. It
12 will cut it into very small pieces, and it will
13 mix it with cement and bentonite in that same
14 process. The rod will slowly be withdrawn, and
15 as it is pulled up it leaves behind a cylinder,
16 which in this case will be somewhere between two
17 and three diameters. That cylinder will consist
18 of mixed soil, cement, and bentonite. It's
19 called soil crete.

20 The properties of it are such that it
21 has had high strength, but more importantly for
22 this application, it will greatly reduce the
23 permeability of the natural soils. In essence,
24 it will reduce the ability for groundwater to
25 flow through the soil. It will be a reasonably

1 impermeable barrier that we will be creating.

2 That process will be repeated a number
3 of times until you have overlapping cylinders.
4 And those overlapping cylinders are going to
5 create a wall, the barrier wall that we keep
6 talking about. Because the wall has very low
7 permeability, as I said groundwater flow through
8 the wall is going to be very small. If we did
9 nothing, the groundwater would backup behind the
10 wall in the same way that you build a dam across
11 a river. The water backs up behind the river.
12 That water level will rise behind the dam until
13 ultimately it will either overflow the wall, flow
14 over the top of the wall, or it will flow around
15 the wall. And so we lose any benefit of having a
16 wall in place.

17 To avoid that, we are going to install
18 groundwater extraction wells behind the wall, and
19 we are going to pump water from those wells at a
20 rate which will make sure that the water level
21 inside the wall is the same as the water outside
22 of the wall. By doing that, we will prevent any
23 rise in water level within the containment, and
24 it will ensure that whatever water is coming into
25 the system, we will be removing that water.

1 We've done an extensive amount of
2 modeling and analysis of the system, and we
3 designed the system such that we will be pumping
4 approximately 535 gallons per minute on average
5 from behind the wall. That will ensure that we
6 have -- that no head differential or no water
7 level difference across the wall.

8 That water will be -- At this point in
9 time, we have a permit application -- as Mr.
10 Ribordy said, the proposal is to discharge that
11 water to the American Bottoms Water Treatment
12 Plant. We have a permit application into the
13 treatment plant to discharge that water. The
14 water will have to be treated to satisfy the
15 State discharge standards, and that's -- at this
16 time that's our intention.

17 When the wall is done, it will not be
18 visible from the ground surface since it's going
19 to be entirely below grade. And I would
20 emphasize that the technology that we are
21 proposing here is proven technology. It's been
22 used in a number of walls both into Europe as
23 well as North America. It's been very successful
24 at creating barriers to groundwater flow. There
25 are at least two or three other walls that are as

1 deep that have been constructed in the United
2 States. So it's proven technology that we are
3 proposing to use here.

4 I think that's about all I have at this
5 point. As I say, I've tried to keep it very
6 short. I'll be happy to answer any questions
7 that you folks may have during the question and
8 answer period, as well as at the end of the
9 meeting. We have a number of display boards.
10 I'd be happy to spend time with you answering any
11 specific questions you may have.

12 Let me turn it back over to Mr. Ribordy
13 at this point.

14 MR. RIBORDY: Thank you, Richard. Let
15 me start all over again. Today --

16 I would never do that to you. As I
17 mentioned before, next step, comment period ends
18 July 17, 2002. You can get any kind of
19 information you probably want in the Cahokia
20 Library. We will answer public comments that are
21 submitted either tonight during the question and
22 answer session or written comments in a document
23 called the response summary, which is issued
24 along with the ROD, which is the record of
25 decision, which is the EPA's final decision for

1 this action.

2 The ROD will be placed in the
3 administrative record for public review when the
4 decision is made. Work could begin this fall.
5 Obviously, we consider this a serious problem
6 that needs to be addressed, and we really would
7 like to get this done as quickly as possible.

8 Construction is expected to take
9 approximately a year. In the meantime, we are
10 beginning what's called remedial investigation,
11 which is sampling investigation over all of Area
12 2. The sampling activities should be completed
13 sometime around 2004. At that time we will be
14 coming out with a final remedy for Area 2, which
15 will include both the source areas and a final
16 groundwater determination. Additional remedial
17 actions or cleanup items might be necessary.

18 For additional information you can
19 either contact Stuart Hill -- And this -- all
20 this information is in that fact sheet. If you
21 have not picked one up, please do -- or myself,
22 Mike Ribordy. There is our contact information.
23 We are at this address, and there's a toll-free
24 number. Feel free to call.

25 Now we are going to open up for a

1 question and answer period. Sorry. If you ask a
2 question or comment, if you can please just stand
3 up and state your name for the court reporter.

4 MR. TOWNSEND: My name is Tonie
5 Townsend. I'm with the Village of Cahokia code
6 enforcement department. If I may, I'd like to
7 ask two questions. I'm a little confused over
8 your evaluation table. In your description a
9 little earlier, you stated that Alternative B and
10 Alternative C over a thirty-year period that
11 Alternative B would run just over twenty-six
12 million dollars. In your chart here, it states
13 annual cost of Alternative B would be just over
14 twenty-six million, and Alternative C would be
15 over fifty million.

16 Did I misinterpret that, the
17 thirty-year cost for being a total of fifty
18 million for Alternative C, or is this an annual
19 cost?

20 MR. RIBORDY: That's over the thirty
21 years. Let me just -- It's on the last page.

22 MR. TOWNSEND: I didn't know if I
23 sneezed during that one. I have one other
24 question.

25 MR. RIBORDY: This is incorrect. Over

1 the thirty years it will be fifty million, and
2 over twenty-six million for the other one.

3 MR. TOWNSEND: That kind of confused
4 me.

5 Now my other question would be since I
6 represent the Village of Cahokia, along with the
7 mayor, Ms. Reed, I have been with the Village for
8 almost twenty-five years as the health officer at
9 some point and now code enforcement, but I have
10 seen the water table at an extreme high. Now
11 years ago I have been told -- many years ago --
12 that Monsanto used to pump the groundwater and
13 lower the water table by cooling some equipment
14 they have in their plant, and that the EPA forced
15 them to cease that type of operation therefore,
16 raising the water table in Cahokia.

17 We have some very low-lying areas
18 around Kinder, Edward, Angelo, streets of that
19 nature. By taking this type of action here in
20 these various sites, will that hopefully affect
21 the Village of Cahokia and lower that water table
22 because I'm -- that's kind of a new area for me,
23 but I'm hoping that this will do that in Cahokia,
24 too.

25 MR. RIBORDY: I don't believe the

1 influence of this remedy would reach that far
2 back. I probably -- Richard Williams would be
3 better qualified --

4 MR. WILLIAMS: No, it wouldn't reach
5 that far back. No, it wouldn't have any impact
6 on Cahokia.

7 MR. TOWNSEND: If you can put a few of
8 them up there, I'd appreciate that. Thank you
9 very much.

10 MR. FAUST: I think that was a rainy
11 well system. This was in thousands, five, six
12 thousand gallons. It was a major, major water
13 production well. This wouldn't be anything near
14 that magnitude that he's referring to, production
15 wells.

16 Allan Faust with Solutia. That was
17 what they call rainy well protection system that
18 -- I don't remember when they discontinued that,
19 but it was orders of magnitude larger than this.

20 MR. RIBORDY: Any other comments or
21 questions? Thank you very much for coming --
22 yes, ma'am.

23 MS. TOLBARD: I don't know his last
24 name, but anyhow Terry from EPA called me and
25 said they were starting to take sampling over

1 there. Terry -- his last name starts with an
2 "S".

3 MR. RIBORDY: Yes, I know --

4 MS. TOLBARD: He's been kind of keeping
5 in touch with me. A couple times he's called me.

6 MR. RIBORDY: Right. Exactly.

7 MS. TOLBARD: Apparently they've
8 already taken the sampling. The way he talked,
9 it was going to be last Thursday, Friday and four
10 days right in a row, and I had to sign a paper.
11 I think they keep coming and doing it. I was
12 just wondering, there hadn't been anything said
13 here tonight about it. Is there plans to do this
14 soon?

15 MR. RIBORDY: It hasn't been done, and
16 it's totally unrelated to this. I'll talk to you
17 about that afterwards, after this meeting because
18 it really has nothing to do with this one.

19 I'll be glad to stay afterwards if you
20 do have other issues, concerns, or questions
21 about other Sauget Area 1 or Area 2 topics. I am
22 project manager for both those sites; so feel
23 free to come up to me after this meeting. I'll
24 stick around as long as you need me.

25 Once again, thank you very much for

1 participating and coming out here. I want to
2 emphasize if you have concerns, questions, or
3 comments please get them in there. It's
4 important from the agency's prospective that the
5 community voices their -- either their approval
6 or dissatisfaction, so we do encourage you to
7 comment. Good night.

8 [Whereupon, the meeting was adjourned.]
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25

1 COUNTY OF RANDOLPH)
SS.)
2 STATE OF ILLINOIS)

3
4 NOTARIAL CERTIFICATE

5
6 I, SHERRY L. GANTNER, Certified
7 Shorthand Reporter and a duly commissioned Notary
8 Public within and for the County of Randolph,
9 State of Illinois, do hereby certify that there
came before a Public Meeting concerning the
Sauget Area 2 Superfund in Sauget, Illinois and
said meeting was reduced to writing by me; and
that this meeting is a true and correct record.

10 I further certify that I am neither
11 attorney nor counsel for nor related nor employed
12 by any of the parties to the action in which this
13 meeting is taken; further, that I am not a
14 relative or employee of any attorney or counsel
15 employed by the parties hereto or financially
16 interested in this action.

17
18 IN WITNESS WHEREOF, I have hereunto set
19 my hand and seal this 12th day of July, 2002.

20 My commission expires December 1, 2003.

21
22 
23 [NOTARY PUBLIC]
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<p>A</p> <p>ability 17:24</p> <p>able 14:5</p> <p>about 2:7,19 3:14 4:12 11:20 15:13,15 16:3 16:5,7,14,24 17:1,4 18:6 20:4 25:13,17 25:21</p> <p>acceptable 7:8,9</p> <p>acceptance 12:18</p> <p>accepted 4:3,13</p> <p>account 14:1</p> <p>acres 3:17</p> <p>across 10:16,17 18:10 19:7</p> <p>action 7:23 9:11 10:3 11:10 12:23 13:5,8 13:11 21:1 23:19 27:11,13</p> <p>actions 4:7 21:17</p> <p>activities 21:12</p> <p>actually 8:16 10:3</p> <p>addition 16:9</p> <p>additional 21:16,18</p> <p>address 2:11 3:5 5:8 8:20,25 13:8 21:23</p> <p>addressed 21:6</p> <p>addressing 3:14 15:18</p> <p>adieu 2:17</p> <p>adjourned 26:8</p> <p>administrative 14:19 21:3</p> <p>adverse 9:5</p> <p>aerial 16:7</p> <p>affect 23:20</p> <p>after 2:8 25:17,23</p> <p>afterwards 25:17,19</p> <p>again 3:14 20:15 25:25</p> <p>agency's 26:4</p> <p>ago 14:17 16:8 23:11 23:11</p> <p>ahead 14:1</p> <p>Allan 24:16</p> <p>almost 16:5 23:8</p> <p>along 4:17 6:22 9:17 16:6 20:24 23:6</p> <p>already 25:8</p> <p>alternative 3:4 9:11,12 9:14,14 11:2,3,7,8,10 11:10,11,13,14,17,21 11:22,24 12:3,4,5,6 12:22,23 13:3,3 14:7 14:8,9,10,12 15:2,6 22:9,10,11,13,14,18</p> <p>alternatives 9:9,10 12:8 14:21 15:18,22 15:23</p> <p>America 19:23</p> <p>American 9:22 10:1 19:11</p>	<p>amount 5:22 19:1</p> <p>analysis 19:2</p> <p>Angelo 23:18</p> <p>aniline 6:6 7:2</p> <p>annual 22:13,18</p> <p>another 2:3 4:5,9</p> <p>answer 20:6,8,20,22 22:1</p> <p>answering 20:10</p> <p>anyhow 24:24</p> <p>anything 24:13 25:12</p> <p>AOC 7:4</p> <p>Apparently 25:7</p> <p>appear 7:17</p> <p>applicable 12:11 13:2</p> <p>application 17:22 19:9 19:12</p> <p>appreciate 24:8</p> <p>approached 15:16</p> <p>appropriate 12:12</p> <p>approval 26:5</p> <p>approximately 3:12,17 3:18 5:13,23,24 7:20 11:13,16,18,21,22 12:2 14:8 19:4 21:9</p> <p>ARARs 13:12</p> <p>area 1:1 2:23 3:8,8,9 3:10,11,16,23 4:7,10 4:11 5:1,4 6:15,16 7:7,13,13,14 8:21,23 10:21 13:7,9 14:23 15:9,17 21:11,14 23:22 25:21,21 27:8</p> <p>areas 3:16,25 4:6 8:10 21:15 23:17</p> <p>arms 16:4</p> <p>around 4:22 16:2 18:14 21:13 23:18 25:24</p> <p>asked 15:17</p> <p>assessment 7:5,24 8:4,5</p> <p>atop 16:14</p> <p>attorney 27:10,12</p> <p>average 19:4</p> <p>avoid 18:17</p> <p>aware 8:15</p> <p>away 2:5</p> <p>B</p> <p>B 9:14 11:3,7,8,10,14 11:21,24 12:3,5 13:3 13:22 14:1,8,12 22:9 22:11,13</p> <p>back 2:16 7:5 15:15 16:5 20:12 24:2,5</p> <p>background 8:11 14:22</p> <p>backs 18:11</p> <p>backup 18:9</p> <p>bank 4:17</p> <p>barrier 9:15,16 10:11 10:11,23 11:2,4,11</p>	<p>11:12 14:2 16:1,1 18:1,5</p> <p>barriers 19:24</p> <p>based 5:1,9</p> <p>baseline 7:24 8:4 9:13</p> <p>basically 15:25 17:11</p> <p>became 8:15</p> <p>bedrock 16:14 17:1</p> <p>before 20:17 27:7</p> <p>begin 21:4</p> <p>beginning 21:10</p> <p>behind 9:17 17:15 18:9 18:11,12,18 19:5</p> <p>being 22:17</p> <p>believe 23:25</p> <p>below 19:19</p> <p>benefit 18:15</p> <p>bentonite 16:16 17:3 17:13,18</p> <p>benzene 6:5 7:2</p> <p>best 8:19</p> <p>better 15:1 24:3</p> <p>between 4:14 8:18 10:11,14 17:16</p> <p>billion 5:14</p> <p>bit 15:12 16:12</p> <p>boards 20:9</p> <p>bold 6:3</p> <p>boring 16:23</p> <p>both 4:15 12:4 13:3,16 13:22 14:4 19:22 21:15 25:22</p> <p>bottoms 5:5 9:22 10:1 19:11</p> <p>boundaries 3:21</p> <p>break 4:18</p> <p>breakdown 11:9</p> <p>bridge 3:19</p> <p>briefly 3:24 15:5</p> <p>brings 16:5</p> <p>build 18:10</p> <p>C</p> <p>C 11:2,11,17,22 12:4,6 13:3,22,25 14:7,13 22:10,14,18</p> <p>Cahokia 3:22 14:23 20:19 22:5 23:6,16 23:21,23 24:6</p> <p>call 8:10,23 21:24 24:17</p> <p>called 2:5 16:19 17:19 20:23 21:10 24:24 25:5</p> <p>came 27:7</p> <p>capital 11:14</p> <p>capped 7:15</p> <p>carbide 5:11</p> <p>carcinogenic 7:6</p> <p>Cargill 3:18</p>	<p>case 17:16</p> <p>cease 23:15</p> <p>cement 16:15 17:2,13 17:18</p> <p>CERTIFICATE 27:3</p> <p>Certified 27:5</p> <p>certify 27:7,10</p> <p>chart 22:12</p> <p>cheaper 14:15</p> <p>chemical 4:15 5:5</p> <p>Chester 7:20</p> <p>Chicago 2:16 14:24</p> <p>chloroaniline 6:6 7:2</p> <p>chlorobenzene 6:5 7:2</p> <p>chop 17:11</p> <p>clay 4:19</p> <p>Clayton 5:5</p> <p>clean 5:20</p> <p>cleanup 5:21 9:4,9 13:13 21:17</p> <p>clearly 2:12</p> <p>code 22:5 23:9</p> <p>collect 6:17</p> <p>collected 5:9 8:3 10:20</p> <p>come 6:3 7:11,16 25:23</p> <p>comes 5:24</p> <p>coming 2:22 18:24 21:14 24:21 25:11 26:1</p> <p>comment 14:16 20:17 22:2 26:7</p> <p>comments 2:9,13,15 20:20,22 24:20 26:3</p> <p>commission 27:17</p> <p>commissioned 27:6</p> <p>community 2:2,4 12:18 26:5</p> <p>companies 15:17</p> <p>completed 15:21 21:12</p> <p>compliance 12:11,13 13:2</p> <p>complications 14:3</p> <p>component 10:24</p> <p>compounds 5:11,12 6:20 8:8</p> <p>concentrations 5:13,17 6:20</p> <p>concerning 27:7</p> <p>concerns 25:20 26:2</p> <p>conducted 4:21,23 7:6 8:16</p> <p>confused 22:7 23:3</p> <p>connect 9:24</p> <p>consider 21:5</p> <p>considered 13:8</p> <p>consist 17:17</p> <p>consists 15:25</p> <p>construct 11:15</p> <p>constructed 16:2,13 20:1</p>	<p>Construction 21:8</p> <p>contact 7:11,17 21:19 21:22</p> <p>containment 18:23</p> <p>contains 4:14</p> <p>contaminant 13:12</p> <p>contaminated 3:5 5:17 6:19 9:6,20 13:19 15:19</p> <p>contaminates 6:1,25 10:22</p> <p>contamination 4:24 5:1 5:22 6:10,15 8:12,20 9:1</p> <p>continuing 6:22</p> <p>control 10:24</p> <p>cooling 23:13</p> <p>coordinator 2:2,4</p> <p>correct 27:9</p> <p>correctly 13:17</p> <p>cost 11:12,15,25 12:17 14:7 22:13,17,19</p> <p>costs 11:14</p> <p>counsel 27:10,12</p> <p>County 27:1,6</p> <p>couple 4:6 25:5</p> <p>court 22:3</p> <p>cover 4:16,19</p> <p>covered 4:2</p> <p>create 18:5</p> <p>creating 18:1 19:24</p> <p>crete 17:19</p> <p>criteria 5:20,21 12:7,21 12:22</p> <p>CSR 1:13,14</p> <p>current 6:9</p> <p>cut 17:12</p> <p>cylinder 17:15,17</p> <p>cylinders 18:3,4</p> <p>D</p> <p>dam 18:10,12</p> <p>data 5:9 6:8,9,17,18 8:16</p> <p>day 5:25 27:16</p> <p>days 25:10</p> <p>December 27:17</p> <p>decided 8:18</p> <p>decision 20:25,25 21:4</p> <p>deep 16:15 17:1 20:1</p> <p>department 22:6</p> <p>description 22:8</p> <p>designed 19:3</p> <p>despite 8:16</p> <p>detail 14:21 15:5</p> <p>detailed 9:8</p> <p>details 15:13</p> <p>detected 6:25</p> <p>determination 21:16</p> <p>determine 10:21</p>
---	--	---	---	---

<p>diameter 16:25 diameters 17:17 dichlorobenzene 6:6 7:3 difference 19:7 differential 19:6 direct 7:16 discharge 3:5 5:19 9:6 10:1,21 14:10 19:10 19:13,15 discharged 5:18 discharging 8:13 15:19 discontinued 24:18 discuss 2:23 discussing 15:24 display 20:9 disposal 3:15,24 4:6 5:4 6:12 dissatisfaction 26:6 document 20:22 doing 10:3,5 18:22 25:11 dollars 11:13 12:2 22:12 done 10:8 16:19 19:1 19:17 21:7 25:15 down 7:20 16:25 downgrade 10:10 downstream 7:18 draft 9:1 drill 16:22 17:3,6 drinking 7:12,18,19 driver 7:23 drops 12:24 drum 4:10 drums 4:8 due 6:10 9:6 duly 27:6 during 20:7,21 22:23</p> <p>E each 3:24 12:21,22 16:4 earlier 2:25 8:16 13:6 22:9 early 5:1 easier 14:13,14 East 3:21 Ecological 7:22,24 8:4 edge 6:21,22 education 11:1 Edward 23:18 effect 10:21 effectiveness 10:8 12:14,17 13:15,25 eight 11:16 16:24 either 18:13 20:21 21:19 26:5 emphasize 19:20 26:2 employed 27:10,12</p>	<p>employee 27:12 encourage 26:6 end 4:10 17:6 20:8 ends 20:17 enforcement 22:6 23:9 engineer 14:2 engineered 11:4 ensure 14:14 18:24 19:5 entire 12:1 entirely 19:19 environment 12:10 13:1 EPA 2:3 4:6 6:17 7:1 8:15,22 9:3 12:7 14:9 15:16 23:14 24:24 EPA's 3:4 15:6 20:25 equipment 23:13 essence 17:23 essentially 3:3 9:15 10:25 11:15 12:23 13:12 estimated 5:21,23 11:12,19,25 Europe 19:22 evaluate 12:7 evaluated 14:21 evaluates 12:21 evaluation 9:8 22:8 evening 15:7 event 5:3 everyone 2:21 evidence 4:25 Exactly 25:6 exceeds 5:19 exit 17:5,9 expected 21:8 expires 27:17 exposed 4:8 exposure 8:6,7 extensive 19:1 extent 3:23 extract 9:19 10:2 extraction 9:19 11:6 16:10 18:18 extreme 23:10</p> <p>F facilities 6:16 facility 8:17,17 9:23 fact 2:14 12:20 21:20 failed 13:5 fairly 3:11 5:16 16:8 17:3 fall 15:15 21:4 FALLING 1:6 far 14:15,20 24:1,5 Faust 24:10,16 fax 2:25 feasibility 8:24 9:2,7</p>	<p>14:20 15:21 Federal 12:14 feel 21:24 25:22 feet 16:3,3,5,15 17:1 fenced 7:15 few 15:11,12 24:7 fifty 11:22 12:3 22:15 22:17 23:1 filling 2:3 film 3:12 final 13:6 20:25 21:14 21:15 Finally 5:4 financially 27:12 first 9:11 12:8 16:21 fish 8:3,5,6,9 five 6:24 11:18 24:11 flow 17:25 18:7,13,14 19:24 Focused 8:24 9:1,7 folded 2:16 folks 8:19 20:7 foot 9:15 forced 23:14 formally 3:25 found 6:2,4,7,25 8:8,9 four 3:25 17:4 25:9 free 21:24 25:23 frequently 6:25 Friday 25:9 from 4:13 5:5 6:11,13 8:5,6 9:5 10:4 15:4 18:19 19:5,18 24:24 26:4 fully 13:4,17,22 further 2:17 27:10,11</p> <p>G gallons 19:4 24:12 Gantner 1:13 27:5 give 2:9,18 14:25 glad 25:19 go 3:7 10:1 15:5 16:25 goes 12:20 14:18,20 going 2:6,18 5:22 10:18 10:20 13:19 15:3 16:22 18:4,8,17,19 19:18 21:25 25:9 Good 15:7 26:7 grade 19:19 grading 10:16 greatly 17:22 ground 16:18 19:18 groundwater 2:24 3:5 3:12 4:23 5:9,17,19 5:20 6:10,14 7:12 8:11,20,25 9:2,7,9,20 9:21 10:9,10,12,14 10:15 11:5 13:7,9,19 13:23 14:10 15:19</p>	<p>16:10 17:24 18:7,9 18:18 19:24 21:16 23:12 grout 9:16 17:2,5,9 grouting 16:19,21 guess 2:20 7:18 8:10</p> <p>H HALL 1:5 hand 27:16 handle 15:1 happy 20:6,10 hard 6:2 12:19 having 18:15 hazardous 4:14 7:9 head 19:6 health 7:5 12:9,25 23:8 hereto 27:12 hereunto 27:15 Hi 2:1,21 high 5:16 11:7 17:3,21 23:10 Hill 2:4 21:19 historical 6:8 hole 16:23 17:6 hopefully 23:20 hoping 23:23 human 7:5 12:9,25 hundred 11:17,18 hydraulic 11:2,12</p> <p>I identified 8:5 identifies 3:4 IEPA 5:19 IEPA's 5:20 Illinois 1:6 4:21 7:4,21 27:2,7,8 illustrates 16:21 immediately 12:24 impact 7:17 24:5 impacted 8:13 impacts 9:6 15:18 impenetrability 12:17 14:4 impermeable 9:16 18:1 implement 12:6 implemented 14:6 important 12:10 26:4 importantly 17:21 inch 17:5 inches 16:24 include 6:14 21:15 included 15:23 includes 14:19 incorrect 22:25 indicates 6:9 industrial 4:4,12 6:16 7:14 influence 24:1</p>	<p>information 14:22 15:3 20:19 21:18,20,22 insert 2:15 inside 10:14 18:21 insitu 16:17 install 18:17 installed 4:17 installing 16:10 instead 11:4 institutional 10:24 instructions 2:10 intake 7:19 intention 19:16 interested 27:13 interim 2:20 9:2,4,9 13:5,8,11 investigation 4:21 8:18 21:10,11 investigations 5:2 invite 15:4 involved 9:14 involvement 2:2,4 involving 4:22 issued 20:23 issues 25:20 items 21:17</p> <p>J January 5:10 jet 9:16 16:19,21 17:11 Joyce 2:1,1 July 14:18 20:18 27:16 June 1:9 7:23 14:17 just 3:7,23,24 4:22 10:10 11:5,9 13:8 14:1,25 15:10,10,11 22:2,11,13,21 25:12</p> <p>K keep 18:5 20:5 25:11 keeping 25:4 kind 7:16 8:10 9:13 12:20 14:25 20:18 23:3,22 25:4 Kinder 23:18 know 2:6 16:24 17:7 22:22 24:23 25:3 known 13:9 Krummrich 6:13 8:17</p> <p>L L 27:5 lagoons 3:25 landfill 4:3,5,13 large 3:10,11 larger 24:19 last 2:25 15:16 22:21 24:23 25:1,9 later 2:10 6:3 law 9:12</p>
--	--	--	--	---

<p>laws 12:14 13:2 leachate 6:11 leading 9:25 least 6:10 16:10 19:25 leaves 17:15 Let 3:7 20:12,14 22:21 levee 16:6 level 10:12,14 18:12,20 18:23 19:7 levels 11:6 13:13 Library 14:23 20:20 License 1:14 like 9:13 15:2 16:23 21:7 22:6 liquid 4:15 6:11 list 3:2 liter 5:14,15 little 2:7 7:15 15:2,5,12 16:12 22:7,9 loading 5:21 long 9:16 13:16 16:3,5 25:24 longer 12:5 Long-term 12:14 13:15 look 15:17 looks 15:2 lose 18:15 lot 14:22 Louis 3:22 low 18:6 lower 23:13,21 low-lying 23:17</p> <p>M MacArthur 3:19 made 16:15 21:4 magnitude 24:14,19 mail 2:13 3:3 mailed 2:16,25 mailing 3:2 main 6:7 maintain 10:13 11:6 maintenance 11:19 major 24:12,12 make 18:20 makeup 3:11,16 manager 2:18 15:9 25:22 many 23:11 March 9:3 mass 5:21 maximum 5:10 may 5:10 20:7,11 22:6 mayor 23:7 ma'am 24:22 mean 5:11 meet 13:4,16,18,22 meeting 1:1 2:23 20:9 25:17,23 26:8 27:7,8 27:9,11</p>	<p>meets 12:22 mention 13:6 mentioned 6:12,24 20:17 micrograms 5:13,15 might 13:5 21:17 migrating 10:16,22 migration 6:11 Mike 2:1,18 21:22 miles 7:20 million 11:16,21,22 12:3,3 22:12,14,15 22:18 23:1,2 minimizing 13:18 minute 19:4 minutes 15:12 misinterpret 22:16 Mississippi 3:6 5:18 7:1,25 8:13 9:5 10:12 13:19 14:11 mitigating 13:18 mix 17:13 mixed 16:16 17:18 mixture 17:2 mobility 12:15 13:21 modeling 19:2 moment 15:10 Monday 1:9 14:17 monitor 10:8 14:14 monitoring 10:7,9,13 10:19 11:8 Monsanto 4:13 23:12 more 14:13,15,20,22 15:2,5 17:21 most 3:19 5:2 6:25 12:10 much 7:22 11:23 12:4 14:8 24:9,21 25:25 municipal 4:4 myself 21:21</p> <p>N name 2:10,11,12 15:7 22:3,4 24:24 25:1 natural 17:23 nature 23:19 near 24:13 nearest 7:19 necessary 21:17 need 2:10 10:4 16:11 25:24 needed 5:7 needs 21:6 neither 27:10 never 20:16 new 23:22 next 20:17 night 26:7 nine 12:7 noncarcinogenic 7:8</p>	<p>non-hazardous 4:15 North 19:23 northern 6:21 NOTARIAL 27:3 Notary 27:6,20 nothing 18:9 25:18 November 8:2 number 8:7 15:16 18:2 19:22 20:9 21:24</p> <p>O O 3:10,15,25 6:9 objective 9:4 objectives 13:18 obtained 10:6 Obviously 12:10 21:5 October 6:18 8:1 officer 23:8 offices 14:24 old 4:3 Once 3:14 25:25 one 3:2 4:7 10:9 12:8 12:10,11,21 13:8 16:4 21:21 22:23,23 23:2 25:18 ones 6:3,3,7 on-site 7:7 open 21:25 operate 15:10 operated 13:17 operation 11:19 23:15 opportunity 7:16 order 4:20 orders 24:19 organic 5:11,12 6:20 other 6:13,16 12:11 19:25 22:23 23:2,5 24:20 25:20,21 out 2:22,25 5:24 11:24 12:24 21:14 26:1 outside 10:11,15 18:21 over 3:7 11:20 12:1 15:5 18:14 20:12,15 21:11 22:7,10,11,13 22:15,20,25 23:2 24:25 overall 12:9,25 14:12 overflow 18:13 overlapping 18:3,4</p> <p>P P 3:10,15,22 4:3 page 22:21 paper 25:10 parallel 16:3 part 7:10 8:3 partially 13:16 participating 26:1 particular 7:14 particularly 8:25</p>	<p>parties 27:11,12 partly 6:10 parts 3:21 5:14 party 8:23 past 10:22 PChem 9:25 people 7:10 8:19 per 5:14,14,15,24,25 17:5 19:4 performance 14:14 performing 8:23 perhaps 17:4 period 11:20 20:8,17 22:1,10 permanence 12:15 permeability 17:23 18:7 permit 10:4 19:9,12 photograph 16:7 17:8 physical 9:14 11:11 picked 21:21 pieces 17:12 pilot 16:22 pipeline 9:23,24 place 4:19 8:20 18:16 placed 21:2 plan 2:7 3:1,3 plans 25:13 plant 6:13 9:25 10:2 19:12,13 23:14 please 2:11 21:21 22:2 26:3 plenty 2:14 plume 10:21 point 2:19 19:8 20:5,13 23:9 port 17:8 possible 6:14 21:7 possibly 10:25 posting 10:25 potential 6:13 7:6 potentially 6:15 pounds 5:24,25 17:5 Power 2:19 preferred 3:4 14:9,10 15:1,6 prepare 8:23 15:20 prepared 7:24 presence 4:24 present 11:25 presentation 2:7,19 presents 9:8 pressures 17:4 pretreatment 10:4 pretty 7:22 12:4 prevent 18:22 previous 4:25 previously 6:12,24 prey 8:6 primarily 3:22 6:2,4</p>	<p>7:14 primary 2:22 3:15 4:11 9:4 probably 8:19 11:6,7 11:23 12:5 13:10,25 14:13 20:19 24:2 problem 8:21 13:9 21:5 problems 5:8 process 10:5 16:19,21 17:14 18:2 processes 16:18 production 24:13,14 program 11:1 project 2:18 5:7 15:8 15:13 25:22 properties 17:20 Property 5:6 proposal 19:10 proposed 2:7 3:1,3 9:21 15:24 proposing 15:14 19:21 20:3 prospective 26:4 protect 9:5 protection 12:9,25 24:17 protective 14:13 proven 19:21 20:2 provide 2:13 12:24 provides 14:22 public 1:1 7:19 11:1 14:16 20:20 21:3 27:6,7,20 pulled 17:15 pump 17:2 18:19 23:12 pumping 11:5,23 19:3 purpose 2:22 pursuant 4:20 7:4 put 4:16,19 24:7 putting 14:2 P.M 1:9</p> <p>Q qualified 24:3 quality 10:9 question 20:7,21 22:1,2 22:24 23:5 questions 20:6,11 22:7 24:21 25:20 26:2 quick 11:9 quickly 3:7 21:7 quite 5:25</p> <p>R R 3:9,13,15,20 4:11,19 4:22 6:2,9,21,23 7:13 7:14 8:1,12 9:1,17 14:12 16:2 railroad 3:19 rainy 24:10,17</p>
---	---	--	--	--

raising 23:16 Randolph 27:1,6 ranges 7:8,10 rate 18:20 reach 24:1,4 real 5:8 really 12:19 21:6 25:18 reason 7:10 reasonably 17:25 received 3:2 recent 5:2 16:8 recently 4:23 record 14:19 20:24 21:3 27:9 Recorded 1:13 reduce 17:22,24 reduced 27:8 reduction 12:15 13:21 Reed 23:7 reference 8:9 referring 24:14 Region 2:3 14:24 Regional 9:22 regulation 13:11 regulations 13:3 related 27:10 relative 27:12 relatively 5:16 relevant 12:12 remedial 2:17 9:8 21:10,16 remediation 2:19,20 remedies 11:20 remedy 9:2 10:8,24 11:16 12:1,13 13:7,7 14:12 15:24,25 21:14 24:1 remember 24:18 removal 4:7,10 removed 4:8 removing 18:25 repeated 18:2 reporter 22:3 27:6 represent 23:6 requested 8:22 required 9:12 requirement 13:23 requirements 12:12 13:4 residents 7:7 response 20:23 review 6:8 21:3 Revised 9:1 Ribordy 2:18,21 15:15 19:10 20:12,14 21:22 22:20,25 23:25 24:20 25:3,6,15 Richard 15:4,8 20:14 24:2 RICRA 8:17,18	right 3:9 16:6 25:6,10 Riprap 4:16 rise 18:12,23 risk 7:5,8,9,22,24 8:4,4 8:5,6 risks 7:6 river 3:6 5:18,23 7:1,20 8:1,13,14 9:5 10:12 10:19 13:20 14:11 15:20 16:4 18:11,11 riverbank 4:8 ROAD 1:6 rod 17:10,14 20:24 21:2 rotated 17:10 route 3:12,18 routed 9:22 row 25:10 run 22:11 runs 16:3,6 S S 3:10,15 5:4 6:9 25:2 same 10:13 17:13 18:10 18:21 samples 8:3 10:20 sampling 4:22,23 5:3 10:10 21:11,12 24:25 25:8 satisfy 19:14 Sauget 1:1,5,6 2:23 3:8 3:8,11,21 8:22 9:24 15:9 25:21 27:8,8 says 13:15 schematic 16:20 seal 27:16 second 9:13 sediment 6:17,19 7:1 7:25 8:2,6,8 10:18 sediments 6:4,7 8:14 see 6:3 12:19 17:7 seen 23:10 selected 12:13 semi-volatile 5:12 serious 21:5 session 20:22 set 27:15 setting 13:13 several 4:5 10:7 sewer 9:25 sheet 3:1 12:20 13:11 21:20 sheets 2:14 Sherry 1:13 27:5 short 4:18 20:6 Shorthand 27:6 short-term 12:16 13:25 show 6:18 showed 4:24 side 9:18	sides 9:17 sign 25:10 significant 5:25 6:19 signs 10:25 similar 11:3,8 since 13:4 19:18 23:5 site 1:1 3:9,9,10,10,10 3:13,19,20,25 4:5,11 4:19,22 5:4 6:2,15,21 6:22 7:13,14 8:1,12 9:1,17 14:11 16:2,14 sites 6:8,12 15:9 23:20 25:22 sits 16:14 six 11:16 16:24 24:11 sixty 7:20 slides 15:11 slight 16:20 slightly 12:5 14:1 slowly 17:14 sludged 4:1 small 5:4 17:6,12 18:8 sneezed 22:23 soil 4:10 17:11,18,19 17:25 soils 16:17,17 17:23 solid 4:15 Solutia 10:3 15:4,8,20 24:16 some 2:8,9 8:11 15:13 23:9,13,17 sometime 21:13 somewhere 17:16 soon 25:14 Sorry 22:1 source 7:12 21:15 sources 6:14 southern 3:23 4:10 6:22 species 8:5 specific 20:11 spell 2:12 spend 20:10 spins 17:11 SPRINGS 1:6 square 17:5 SS 27:1 St 3:21 stabilized 4:1 stand 22:2 standard 16:23 standards 19:15 start 20:15 started 14:16 starting 6:21 24:25 starts 25:1 state 2:11 4:20 7:4 12:14,17 19:15 22:3 27:2,7 stated 22:9	states 20:2 22:12 stay 25:19 steel 5:5 stem 17:3,6 step 20:17 stick 25:24 strategy 2:24 streets 23:18 strength 17:21 strictly 11:11 Stuart 2:4 21:19 studied 9:10 study 8:24,24 9:2,7 14:20 15:21,21 submitted 9:3 20:21 subsurface 9:23 successful 19:23 summary 20:23 Superfund 1:1 8:19 27:8 support 12:18 supposedly 5:5 sure 18:20 surface 7:25 8:2,7,8 10:19 19:18 surrounded 3:17 SVOCs 5:15 6:2,21 system 18:25 19:2,3 24:11,17 systems 13:17 T table 2:15 13:15 22:8 23:10,13,16,21 table's 12:20 take 11:15 12:5 15:12 21:8 24:25 taken 4:18 16:7 25:8 27:11 taking 23:19 talk 15:4 25:16 talked 25:8 talking 3:14 4:12 18:6 technical 15:3 technologies 14:5 technology 19:20,21 20:2 tell 15:12 Terry 24:24 25:1 thank 2:21 20:14 24:8 24:21 25:25 their 23:14 26:5,5 thing 16:22 think 3:20 14:12,17 20:4 24:10 25:11 thirty 12:1 22:20 23:1 thirty-five 9:15 thirty-year 11:20 22:10 22:17 thousand 11:17,18	17:4 24:12 thousands 24:11 three 9:10,17,19 16:7 16:10 17:4,17 19:25 through 8:2 10:22 12:16,21 13:22 14:18 17:3,6,9,25 18:7 Thursday 25:9 time 2:8 3:14 4:2 10:6 13:13 14:25 19:9,16 20:10 21:13 times 18:3 25:5 tissue 8:3,9 today 4:12 20:15 today's 12:2 together 16:16 TOLBARD 24:23 25:4 25:7 told 23:11 toll-free 21:23 Tonie 22:4 tonight 2:8,13,22 15:25 20:21 25:13 top 16:25 18:14 topics 25:21 total 5:10 22:17 totally 25:16 touch 25:5 Townsend 22:4,5,22 23:3 24:7 toxicity 12:15 13:21 tracks 3:19 traditional 14:5 treated 13:24 19:14 treatment 9:23 10:2 12:16 13:22 19:11,13 trenching 16:23 tried 20:5 true 27:9 trunk 9:25 try 10:13 trying 5:8 turn 20:12 twenty 11:21 twenty-five 23:8 twenty-six 12:2 22:11 22:14 23:2 twice 11:7,23 14:8 two 16:4,7 17:16 19:25 22:7 type 23:15,19 types 10:7 typically 7:11 U ultimately 18:13 United 20:1 unrelated 25:16 until 18:3,12 upgrade 9:18
---	---	---	---	--

<p>use 20:3 used 19:22 23:12 uses 12:7 using 12:1 14:4 U-shaped 16:1 U.S 2:2 3:4 4:6 6:17 7:1 8:15,22 9:3 12:7 14:9 15:6</p> <p>V</p> <p>various 6:1 23:20 verbal 2:9 very 3:23 7:15 11:3 15:11,12 17:12 18:6 18:8 19:23 20:5 23:17 24:9,21 25:25 via 9:23 vicinity 3:13 8:1,12 14:11 Village 1:5 9:24 22:5 23:6,7,21 visible 19:18 VOC 5:10 VOCs 6:2,5 voices 26:5 volatile 5:11 6:20 volume 12:16 13:22 volunteered 15:20</p> <p>W</p> <p>waive 13:11 wall 9:16,17,18,18 10:11,12,14,15,16,23 11:4 14:2 16:1,1,2,13 16:15 18:5,5,6,8,10 18:13,14,15,16,18,21 18:22 19:5,7,17 walls 19:22,25 want 15:11 20:19 26:1 waste 4:4,13,16 6:11 Wastewater 10:2 water 7:13,18,19,25 8:2,7,8 10:2,19 11:24 18:11,12,19,20,21,23 18:24,25 19:6,8,11 19:11,13,14 23:10,13 23:16,21 24:12 way 18:10 25:8 week 2:25 14:17 well 12:22 19:23 20:8 24:11,13,17 wells 9:19 16:11,11 18:18,19 24:15 were 6:4 7:9 8:3,9 9:10 24:25 west 3:8 We'll 2:9,10 we're 15:24 We've 19:1 WHEREOF 27:15</p>	<p>Williams 15:4,7,8,24:2 24:4 withdrawn 17:14 WITNESS 27:15 wondering 25:12 Work 21:4 workers 7:7 worth 11:25 wouldn't 13:12 24:4,5 24:13 writing 27:8 written 2:13 20:22</p> <p>Y</p> <p>year 5:24 15:16 21:9 years 12:1 16:8 22:21 23:1,8,11,11</p> <p>Z</p> <p>zero 11:13</p> <p>0</p> <p>084-004416 1:14</p> <p>1</p> <p>1 3:8 6:15 25:21 27:17 1,300 5:25 1-4 6:6 7:3 12th 27:16 140 16:14 17:1 17 14:18 20:18 17th 14:17 1957 4:14 1977 4:14 1979 4:16,20 1992 4:20 1995 4:7 1999 4:9</p> <p>2</p> <p>2 1:1 2:23 3:8,11,16,20 7:13 8:21,23 13:7 21:12,14 25:21 27:8 2,000 16:3 2000 4:9,24 5:10 6:18 8:2 2001 7:23 2002 1:9 9:3 14:18 20:18 27:16 2003 27:17 2004 21:13 24 1:9 2897 1:6</p> <p>3</p> <p>3 3:18 3,500 16:2 31 9:3 312 3:17</p> <p>4</p>	<p>4 7:2 484,000 5:23</p> <p>5</p> <p>5 2:3 14:24 535 19:4</p> <p>6</p> <p>6,760,000 5:15</p> <p>7</p> <p>7:00 1:9 74,000 5:13 750 16:5</p> <p>9</p> <p>94 7:5</p>		
--	---	--	--	--